

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
16 June 2005 (16.06.2005)

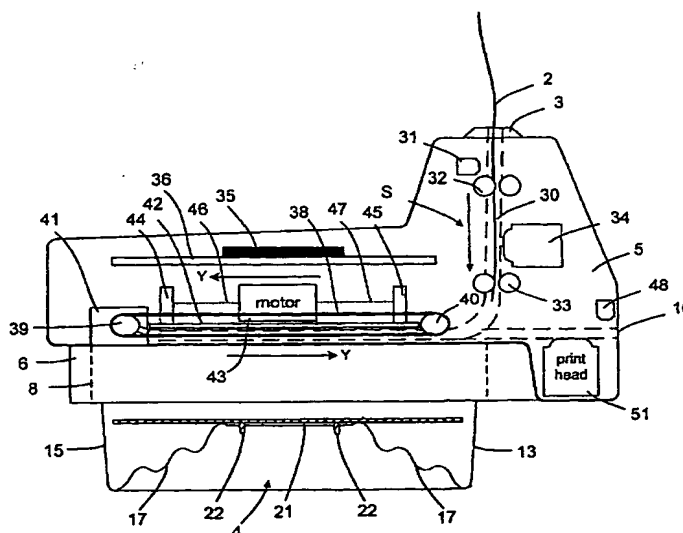
PCT

(10) International Publication Number
WO 2005/054055 A3

- (51) International Patent Classification⁷: **B65B 5/10**, B65D 5/54, G07D 11/00
- (21) International Application Number: PCT/GB2004/005009
- (22) International Filing Date: 26 November 2004 (26.11.2004)
- (25) Filing Language: English
- (26) Publication Language: English
- (30) Priority Data: 0327522.9 26 November 2003 (26.11.2003) GB
- (71) Applicant (for all designated States except US): **MONEY CONTROLS LIMITED** [GB/GB]; Coin House, New Coin Street, Royton Oldham OL2 6JZ (GB).
- (72) Inventor; and
- (75) Inventor/Applicant (for US only): **BELL, Malcolm** [GB/GB]; 9 Foxhill Green, Weetwood Leeds LS16 5PQ (GB).
- (74) Agents: **READ, Matthew, Charles et al.**; Venner Shipley LLP, 20 Little Britain, London EC1A 7DH (GB).
- (81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.
- (84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).
- Published:
— with international search report

[Continued on next page]

(54) Title: PACKAGING DEVICE AND CONTAINER FOR SHEET OBJECTS



(57) Abstract: A device (1) packages a stack of sheet objects such as banknotes (2) in a container (4) sandwiched between a frame (6) and the device's main body (5). Banknotes are fed through a first input port (3) to be stacked in the container. A closure member (9) is inserted through a second input port (10) and heat-sealed onto the container (4) when full. The container (4) is integrally moulded in a plastics material with inwards hinged wings (19,20) that act as guide rails (23) for banknotes as they are fed towards opening (11) of the container by a drive mechanism the packaging device. The wings have castellations (24) that act as a stop to hold edges of banknotes (29) in stacked in the container by the drive mechanism. A printer (51) prints data concerning the stacked banknotes on the underside of the closure member (9). The packaged container is opened by a device that compresses it so that the closure member (9) bursts along a line of weakness (53).



— *before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments*

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(88) Date of publication of the international search report:
28 July 2005

INTERNATIONAL SEARCH REPORT

inal Application No
PCT/GB2004/005009

A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 B65B5/10 B65D5/54 G07D11/00

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
IPC 7 B65B B65D G07D

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	EP 0 852 279 A (BAVAK BEVEILIGINGSGROEP B.V.; LAMERS PRODUCTIONS B.V.; ABN AMRO BANK N.V) 8 July 1998 (1998-07-08)	1,21,22, 51
A	column 8, line 43 - column 10, line 48 figures 1-3	23
X	DE 39 31 176 A1 (LORENZ, JOERG K., 7302 OSTFILDERN, DE; LORENZ, JOERG K., 73760 OSTFILD) 28 March 1991 (1991-03-28) column 4, line 20 - line 68 column 6, line 60 - column 9, line 4 column 10, line 54 - line 66 column 11, line 61 - column 12, line 47 figures 1,2,5-14	23,49,50
	----- -/--	

☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

* Special categories of cited documents :

- "A" document defining the general state of the art which is not considered to be of particular relevance
- "E" earlier document but published on or after the international filing date
- "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- "O" document referring to an oral disclosure, use, exhibition or other means
- "P" document published prior to the international filing date but later than the priority date claimed

- "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- "&" document member of the same patent family

Date of the actual completion of the international search

11 March 2005

Date of mailing of the international search report

30.05.05

Name and mailing address of the ISA

European Patent Office, P.B. 5818 Patentlaan 2
NL - 2280 HV Rijswijk
Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,
Fax: (+31-70) 340-3016

Authorized officer

Paraf, E

INTERNATIONAL SEARCH REPORT

International Application No
PCT/GB2004/005009

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT		
Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	WO 94/17274 A (HEMA B.V; BAVAK BEVEILIGINGSGROEP B.V; W. VAN TONGEREN ARCHITEKT INTER) 4 August 1994 (1994-08-04)	1,21,22, 51
A	page 7, line 18 - page 9, line 6 page 10, line 17 - line 26 figures 1,5,6,8-10 -----	23
X	EP 1 258 842 A (NCR INTERNATIONAL INC) 20 November 2002 (2002-11-20) paragraph [0019] - paragraph [0021] paragraph [0032] - paragraph [0036] figures 2a,2b,4-6 -----	23,49,50
X	US 6 402 025 B1 (SHEPHERD ALAN G ET AL) 11 June 2002 (2002-06-11) column 3, line 58 - column 5, line 3 figures 2a,2b,3,5 -----	49,50
A	GB 2 236 143 A (TIMOTHY WILLIAM * TOD) 27 March 1991 (1991-03-27) page 8, line 23 - page 10, line 18 figures 1,5,6,5a,5b,5c -----	1,21-23, 51

INTERNATIONAL SEARCH REPORT

International application No.
PCT/GB2004/005009

Box II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)

This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☐ Claims Nos.:
because they relate to subject matter not required to be searched by this Authority, namely:

2. ☐ Claims Nos.:
because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:

3. ☐ Claims Nos.:
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

Box III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

see additional sheet

1. ☐ As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
2. ☐ As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. ☐ As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
4. ☒ No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

1-54

Remark on Protest

- ☐ The additional search fees were accompanied by the applicant's protest.
- ☐ No protest accompanied the payment of additional search fees.

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

This International Searching Authority found multiple (groups of) inventions in this international application, as follows:

1. claims: 1-54

Packaging system, method and container for packaging sheet objects with an attributable monetary value.

2. claim: 55

Low voltage heater element

INTERNATIONAL SEARCH REPORT

International Application No

PCT/GB2004/005009

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
EP 0852279	A	08-07-1998	NL 1004930 C2 EP 0852279 A2	20-07-1998 08-07-1998
DE 3931176	A1	28-03-1991	NONE	
WO 9417274	A	04-08-1994	NL 9300192 A EP 0681639 A1 WO 9417274 A1	16-08-1994 15-11-1995 04-08-1994
EP 1258842	A	20-11-2002	EP 1258842 A2 US 2004016034 A1	20-11-2002 22-01-2004
US 6402025	B1	11-06-2002	EP 1135753 A1 WO 0031695 A1	26-09-2001 02-06-2000
GB 2236143	A	27-03-1991	NONE	